



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/774,549

01/31/2001

Walter Vincent Dixon

RD-27,937

3210

6147

7590

05/17/2004

GENERAL ELECTRIC COMPANY
GLOBAL RESEARCH
PATENT DOCKET RM. BLDG. K1-4A59
SCHENECTADY, NY 12301-0008

EXAMINER

AZARIAN, SEYED H

ART UNIT

PAPER NUMBER

2625

DATE MAILED: 05/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/774,549

Applicant(s)

DIXON ET AL.

Examiner

Seyed Azarian

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21, 25, 28, 32-37 and 40-45 is/are rejected.
- 7) ☒ Claim(s) 22-24, 26, 27, 29-31, 38 and 39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

RESPONSE TO AMENDMENT

1. Applicant's arguments, filed 2/9/2004, see page 2 through 3, with respect to the rejection of claims 1-45 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Polichar et al (U.S. patent 6,205,199).

Double Patenting

2. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 1-45 provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-47 of copending Application No. 09/774,552. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

As an example consider claim 1, of current application, compared to claim 1, of copending application, it disclose the detector framing node, receiving image data and communicating the received data to said host computer, And claim 3 of current

Art Unit: 2625

application compare to claim 3, refer to an image detecting system including a flat panel detector to detect, also claim 22, 23 and 24, compare to claim 24, of Patten application it disclose at least 1024 x 1024 array of 16 bit words.

Finally claim 7 and 8, of current application compare to claim 37 of patent application, discloses rate of at least 33MHz. Also the other claims of current application have similar correspondence to the claims of copending application.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

4. Claims 1-21, 25, 28, 32-37 and 40-45, are rejected under 35 U.S.C. 102(e) as being anticipated by Polichar et al (U.S. patent 6,205,199).

Regarding claim 1, Polichar discloses an image data acquisition system, comprising;

a host computer having at least one host processor executing operations with an operating system and a host memory storing data and a detector framing node being programmable to receive image data from a selected flat panel detector of a plurality of different flat panel detectors (column 12, lines 32-49, read out signal from the imager is synchronized with the digitizer of the image processor via serial communications port

Art Unit: 2625

and host memory, also column 4, lines 41-59, image processor received the digitized pixels transmitted by the serial interface drive of the controller);

And communicating the received image data to the host memory independent of the operating system (column 12, line 56 through column 13, line 10, image display within one frame time and available storage media used by the control unit, also Fig. 4, column 11, lines 3-18, communication port and host memory and finally column 23, lines 25-33).

Regarding claim 2, Polichar discloses the image data acquisition system according to claim 1, wherein the host computer runs a non-real time operating system, and said detector framing node continues to receive and store the image data from the selected flat panel detector during a lapse in communication with the host memory (see claim 1, and column 3, lines 33-51, displaying the full dynamic range of an image-capturing).

Regarding claim 3, Polichar discloses the data acquisition system according to claim 2, wherein the received image data is radiosopic image data and the selected panel detector includes an amorphous silicon photo-diode (Fig. 6, column 10, lines 37-59, flat panel includes amorphous silicon and column 15, lines 53-67, image is the radiosopic image).

Regarding claim 5, Polichar discloses the image data acquisition system according to claim 1, said detector framing node communicating the received image data with the host memory over a computer communication bus at a first clock frequency and receiving the image data from the selected flat panel detector over an

Art Unit: 2625

image detection bus at a second clock frequency different from the first clock frequency (column 18, lines 13-31, separate clock timing signal).

Regarding claim 7, Polichar discloses the image data acquisition system according to claim 6, wherein the first clock frequency clocks parallel data of at least 33 MHz, and the second clock frequency clock serial data of at least 1GHz said detector framing (column 11, lines 20-31 also lines 49-67, 33 MHz).

Regarding claim 9, Polichar discloses the image data acquisition system according to claim 5, wherein the computer communication bus is a PCI bus (column 11, lines 3-18, communication port and host memory).

Regarding claim 10, Polichar discloses the image data acquisition system according to claim 9, wherein the image detection bus is an fiber data link and said detector framing node receives the image data from the selected flat panel detector over the optical fiber data link (column 7, lines 1-11, fiber optic).

Regarding claim 15, Polichar discloses the image data acquisition system according to claim 14, wherein said detector farming node has a real time bus interface communicating instructions to a radiation generation system over a real time bus for triggering generation of radiation, and the image data is generated by the selected flat panel detector in response to the generated radiation (column 4, lines 41-59, generating radiation, also column 14, line 65 through column 15, line 4).

Regarding claim 17, Polichar discloses the image data acquisition system according to claim 16, wherein the optical fiber data link, the fiber optic interface

Art Unit: 2625

converts the serial image data into parallel image data for communication over the local bus (see claim 9, and column 20, lines 9-32).

Regarding claim 25, Polichar discloses the image data acquisition system according to claim 1, said detector framing node receiving the image data from a signal panel X-ray detection panel (column 9, lines 13-26).

Regarding claims 4, 6, 8, 11-12, 34-36 and 40-41, the arguments analogous to those presented for claims 1, 3, 5 and 7, are applicable.

Regarding claims 13-14, 16, 18-19, 33, 37 and 42, the arguments analogous to those presented for claims 7 and 9 are applicable.

Regarding claims 20-21, 28, 32 and 43-45, the arguments analogous to those presented for claims 1, 10 and 15 are applicable.

Allowable Subject Matter

5. Claims 22-24, 26-27, 29-31 and 38-39, are objected as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitation of the base claim and any intervening claims.

Other prior art cited

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. patent (5,262,649) to Antonuk et al is cited for thin-film, flat panel, pixilated detector array for real-time digital imaging and dosimetry of ionizing radiation.

U.S. patent (4,672,454) to Cannella et al is cited for X-ray image scanner and method.

U.S. patent (4,996,413) to McDaniel et al is cited for apparatus and method for reading data from an image detector.

U.S. patent (6,205,199) to Polichar et al is cited for pixel-correlated digital X-ray imaging system.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed Azarian whose telephone number is (703) 306-5907. The examiner can normally be reached on Monday through Thursday from 6:00 a.m. to 7:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached at (703) 308-5246. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR.

Status information about the PAIR system, see [http:// pair-direct.uspto.gov](http://pair-direct.uspto.gov). Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seyed Azarian

Patent Examiner

Group Art Unit 2625

May 13, 2004



Jayanti K. Patel
Primary Examiner

Application/Control Number: 09/774,549
Art Unit: 2625

Page 8